USDA Section II-E Technical Guide Area 2, Texas

SAIDY LOAL RANGE SITE DESCRIPTION PE 26-33

LAND	RESOURCE	AREA	PRR
Date			
Appro	oved By _		

1. PHYSIOGRAPHIC FEATURES: This site consist of broad, nearly level plains, gently sloping divides, and long, narrow sideslopes along streams. Slopes are plane to convex and range from 0 to 8 percent, but are mainly 1 to 5 percent. Elevation ranges from 2,500 ft. in the S.E. portion of the area to 4,700 ft. in the H.H. portion.

2. SOILS:

a. These are deep, well drained, moderately and moderately rapidly permeable, loamy soils. Typically, the soils of this site, have a light colored noncalcareous fine sandy loam surface layer over a sandy clay loam subsoil.

The natural fertility of these soils is moderate. They take in water readily and the water holding capacity is high. Runoff is slow to medium. If unprotected by vegetative cover, the hazard of water erosion is moderate to severe on the more sloping areas. The susceptibility to soil blowing is moderate to severe. The root zone of these soils is deep and easily penetrated by plant roots.

b. Major soils associated with this site are:

Amarillo fsl, Dallam fsl, Hiles fsl, Dalhart fsl

c. Specific site location: APPROVAL SIGNATURE

DATE

Conservationist

Specialist-Range

Field Specialist-Biology

3. CLILATE

See field office climate description.

4. CLIMAX VEGETATION:

a. The climax plant community is made up of a good balance between tall to mid grasses and supports an abundance of grass. This vegetation has a tendancy to decrease slowly even under relatively heavy grazing.

This site differs from mixedland slopes in that there are less tall grasses (only minor amounts in favored locations) more blue grama and less sideoats grama. Also there is less yucca.

RELATIVE PERCENTAGE OF TOTAL PLANT COLLUNITY (Air-dry weight)

Grasses 90% blue grama 25 sideoats grama 15 buffalograss 10 little bluestem)	Moody plants 5% sand sagebrush 5 yucca T catclaw acacia T vine ephedra T	Forbs 5% catclaw sensitivebriar plains zenia wild alfalfa daleas)
sand bluestem)15	skunkbush sumac T	prairie clovers)
Indiangrass) anada wildrye) fexas bluegrass) neddle-and-thread)10 western wheatgrass) hairy grama) sand dropseed)10 perennial threeawn) silver bluestem 5 tumble windmillgrass T		gaura sp. penstemons primrose sp. black sampson Indian rushpea lyreleaf greeneyes Louisiana sagewort Engelmanndaisy))))))

- b. As retrogression occurs plant such as sand bluestem, Indiangrass and sideoats grama will decrease while bluegrama and buffalograss will increase. Other grasses such as perennial threeawn, hairy grama, silver bluestem and sand dropseed will also increase. With continued retrogression plants such as mesquite, prickly pear and cholla will invade the site. Often mesquite will dominate the site when in poor range condition. In this condition it will often resemble the clay loam range site. Forage production is reduced considerably when in competition with heavy stands of mesquite.
- c. Approximate total annual production in excellent condition ranges from 1600 to 2400 pounds of air-dry vegetation per acre, depending upon rainfall growing conditions.
- 5. WILDLIFE ADAPTED TO THE SITE: This site is inhabited by deer, antelope, quail, and dove. Predator animals such as coyotes also occupy the site. Other small animals and birds feed, nest and raise their young on the site. Prairie og towns are often commonly associated with the site.

- 6. ESTHETIC AND RELATED VALUES: Blue, yellow, purple and maroon flowers of forbs dot the landscape during spring and early fall when there is adequate moisture. White flowers of yucca and maroon flowers of cholla also add considerable color to the site. Both of these plants are used for landscaping.
- 7. HYDROLOGIC CHARACTERISTICS: These soils are in hydrologic group B. Water infiltration and transmission rates are moderate. Surface runoff is slow to medium and sediment potentials are low to moderate. There is little ground water recharge.
- 8. GUIDE TO INITIAL STOCKING RATE:

Percent

a.	Condition Class	Climax Vegetation	Acres/AU/Year long	
	Excellent	76-100	16-20	
	Good ·	51-75	18-30	
	Fair	26-50	28-42	
	Poor	0-25	40+	

b. Seeded Areas

	*100-76	75-51	20-26	25-0
sand bluestem	16-22**	22-26	27-30	39-48
sideoats grama	22-26	27-38	39-48	40-62
mixture (above)	16-22	22-26	27-38	39-48

*Percent ground cover ** Acres/AU/yearlong

RELATIVE FORAGE QUALITY OF SPECIES 1/

a. For cattle:

Primary 2/ Secondary 3/ sand bluestem silver bluestem Indiangrass sand dropseed sideoats grama hairy grama blue grama tumble windmillgrass buffalograss vine ephedra little bluestem wild alfalfa Canada wildrye prairie clovers Texas bluegrass primrose sp. neddle-and-thread lyreleaf greeneyes Western wheaterass Louisiana sagewort catclaw sensitivebriar yucca blooms engelmanndaisy

Low Value 4/
perennial threeaun
yucca
sand sagebrush
skunkbush sumac
plains zenia
daleas
gaura sp.
penstemons
black sampson
catclau acacia
Indian rushpea

b. For antelope:

catcley gensitivebrian
paper flower
yucca blooms
groundsels
wild alfalfa
prairie clovers
primrose sp.
Engelmanndaisy
Indian rushpea
annuals
Louisiana sagewort
lyreleaf sagewort

daleas catclaw acacia
black sampson
sand dropsed
buffalograss
blue grama
Ganada wildrye
Texas bluegrass
neddle-and-thread
Western wheatgrass
sand sagebrush
vine ephedra

skunkbush sumac
plains zenia
gaura
sideoats grama
bluestems
Indiangrass
hairy grama
perennial threeava

tumble windmillgrass

yucca

c. For dove and quail 5/

Western ragueed wild alfalfa catclaw sensitivebriar

annual broomweed buffalo-bur sunflowers crotons prairie clovers
penstemons

black sampson
send dropseed
skunkbush summe
catelay acacia

daleas Western wheatgrass
Canada wildrye per
Engelmonndaisy tur

fuzzy seeded grasses and forbs sideoats grama buffalograss Texas bluegrass needle-and-thread ss perennial threeam

tumble windmillgrass sand sagebrush yucca vine ephedra Louisiana sagewort lyreleaf greeneyes

- This rating system provided general guidance as to animal preference for plant species. It also indicates competition between kinds of animals for the various plants. Grazing preference changes from time to time and place to place depending upon the animal, plant palatability and nutritive value, stage of growth and season of use, relative abundance, and associated plants. Grazing preference does not necessarily reflect the place of a plantin in the range ecosystem.
- 2/ These species generally decrease under prolonged heavy grazing.
- 3/ These plants usually increase initially, then decrease under prolonged heavy use.
 - These plants continue to increase with heavy grazing use.
- 5/ For these wildlife species the terms primary, secondary and low value indicate animal preference only. They do not indicate plant response to feeding pressure; nor do they have any esological significance.